

Work Order ID 134914

Wednesday, July 22, 2015 4:16:03 PM

134914

Page 1

Item ID: D3574-6 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Cabin Floor Protector
 Start Date: 7/22/15 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 7/22/15 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: MLS Date: JUL 23 2015 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3574	Rev B								
100	FLOW WATER JET	0.00							
100									
Waterjet	Memo	0.01							
FLOW CNC Waterjet	1-Cut as per Dwg D3574								
	Dwg Rev: <u>B</u>								
	Prog Rev: <u>B</u>								
	2-Deburr								
110	QC2- Inspect parts off machine FAI/FAIB	0.00							
110									
QC	Memo	0.00							
Quality Control									

① _____ 07/15/08/11
 ① _____ 07/15/08/11

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table> <tr> <td>Skid-tube ☐</td> <td>Cross tube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Date :	Step #:	QTY Effective :	MRB (QSI042) Approval
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Description Work Order Deviation	Disposition	Completed By
		Lead hand / Supervisor Approval Verification
		QC / QA Coordinator Approval

Root Cause <table> <tr><td>Environment</td><td>☐</td><td>No Re-verification</td><td>☐</td></tr> <tr><td>Design</td><td>☐</td><td>Operator</td><td>☐</td></tr> <tr><td>Doc/Data</td><td>☐</td><td>Offset/Setup</td><td>☐</td></tr> <tr><td>Equip/Tooling</td><td>☐</td><td>Supplier</td><td>☐</td></tr> <tr><td>Handling/Pre</td><td>☐</td><td>Training</td><td>☐</td></tr> <tr><td>Material</td><td>☐</td><td>Use for Testing</td><td>☐</td></tr> <tr><td>Internal Transport</td><td>☐</td><td>Poor Information</td><td>☐</td></tr> <tr><td>Tribal Knowledge</td><td>☐</td><td>Rushing</td><td>☐</td></tr> <tr><td>LOA</td><td>☐</td><td>Product Improvement</td><td>☐</td></tr> <tr><td>Substation</td><td>☐</td><td>Process Improvement</td><td>☐</td></tr> <tr><td>Past Expiry Date</td><td>☐</td><td>Manufacturing Process</td><td>☐</td></tr> <tr><td>Misidentified</td><td>☐</td><td>Past Due</td><td>☐</td></tr> </table>		Environment	☐	No Re-verification	☐	Design	☐	Operator	☐	Doc/Data	☐	Offset/Setup	☐	Equip/Tooling	☐	Supplier	☐	Handling/Pre	☐	Training	☐	Material	☐	Use for Testing	☐	Internal Transport	☐	Poor Information	☐	Tribal Knowledge	☐	Rushing	☐	LOA	☐	Product Improvement	☐	Substation	☐	Process Improvement	☐	Past Expiry Date	☐	Manufacturing Process	☐	Misidentified	☐	Past Due	☐	FAULT CATEGORY <table> <tr><td>Pressure/Forced</td><td>☐</td><td>Temperature/Cure</td><td>☐</td><td>Power Loss/Surge</td><td>☐</td><td>Positioned Wrong</td><td>☐</td></tr> <tr><td>Bending</td><td>☐</td><td>Set-up</td><td>☐</td><td>Folio/Program</td><td>☐</td><td>Outside Dimensions</td><td>☐</td></tr> <tr><td>Centre Not Concentric</td><td>☐</td><td>BOM/Route</td><td>☐</td><td>Grain</td><td>☐</td><td>Over/Under tolerance</td><td>☐</td></tr> <tr><td>Cracks</td><td>☐</td><td>Broken/Damage/Defect</td><td>☐</td><td>Weld</td><td>☐</td><td>Part Incorrect</td><td>☐</td></tr> <tr><td>Crimp/Kink/Ripple/Wave</td><td>☐</td><td>Inspection Incomplete/Unqualified</td><td>☐</td><td>Wrong Stock Pulled</td><td>☐</td><td>Part Lost/Missing</td><td>☐</td></tr> <tr><td>Cuffs</td><td>☐</td><td>Contamination</td><td>☐</td><td>Out of Sequence</td><td>☐</td><td>Part Moved</td><td>☐</td></tr> <tr><td>Crushing</td><td>☐</td><td>Countersink</td><td>☐</td><td>Off-set</td><td>☐</td><td>Drawing</td><td>☐</td></tr> <tr><td>Heat Treat</td><td>☐</td><td>Cut Too Short</td><td>☐</td><td>Mislabeled</td><td>☐</td><td>Finish</td><td>☐</td></tr> <tr><td>Wave/Twist in Tube</td><td>☐</td><td>Instructions Incomplete/Unclear</td><td>☐</td><td>Fit/Function</td><td>☐</td><td>Misread</td><td>☐</td></tr> <tr><td>Marks/Chatter</td><td>☐</td><td>Drill Holes</td><td>☐</td><td>Misaligned/off center</td><td>☐</td><td>Turning Sequence</td><td>☐</td></tr> </table>				Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
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120	QC8- Inspect parts - second check	0.00							
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120

QC

Quality Control

Memo

0.00

①

DAS
38
9-89

AUG 11 2015

130

130

Small Fab

Small Fab

Small Fab

Memo

Deburr if necessary.

N/A

DAS
38
9-89
0.00

140

140

QC

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

N/A

DAS
38
9-89
0.00

DQA: _____ Date: _____



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Picklist Print

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Parent Item: D3574-6

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Parent Item Name: Cabin Floor Protector

Start Date: 7/22/15

Required Date: 7/22/15

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev :A New Issue 07.07.23 EC verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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MLEXS.125-F60029-04

Purchased

No

sf

1,687.334

25.35294

MI FXS 125-F60029-04

GE PLASTICS LEXAN SHEET

06/15/08/11

Location

Loc Qty

Loc Code

MAT

1316.2

m131705

1316.2

27

MAT019

371.1344

m129759

53.3334

m130209

317.801

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QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

DART AEROSPACE LTD		Work Order:	134914
Description: Cabin Floor Protector		Part Number:	D3574-6
Inspection Dwg: D3574 Rev: B		Page 1 of 2	

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø3.00	+0.006/-0.001	Ø 3.005	/		Vide-02	
7.37	+/-0.030	7.37	/		Tap	
11.00	+/-0.030	11.00	/			
15.25	+/-0.030	15.25	/			
25.87	+/-0.030	25.87	/			
39.75	+/-0.030	39.75	/			
44.75	+/-0.030	44.75	/			
58.38	+/-0.030	58.38	/			
63.50	+/-0.030	63.50	/			
65.25	+/-0.030	65.25	/			
10.25	+/-0.030	10.25	/			
11.87	+/-0.030	11.87	/			
14.75	+/-0.030	14.75	/			
26.00	+/-0.030	26.00	/			
40.87	+/-0.030	40.87	/			
45.00	+/-0.030	45.00	/			
48.00	+/-0.030	48.00	/			
55.13	+/-0.030	55.13	/			
61.25	+/-0.030	61.25	/			
61.88	+/-0.030	61.88	/			
64.63	+/-0.030	64.63	/			
1.13	+/-0.030	1.13	/			
7.63	+/-0.030	7.63	/			
11.00	+/-0.030	11.00	/			
22.10	+/-0.030	22.10	/			
22.50	+/-0.030	22.50	/			
24.50	+/-0.030	24.50	/			
35.13	+/-0.030	35.13	/			
36.50	+/-0.030	36.50	/			
40.00	+/-0.030	40.00	/			
41.88	+/-0.030	41.88	/			
43.63	+/-0.030	43.63	/			
6.75	+/-0.030	6.75	/			
9.50	+/-0.030	9.50	/			

DART AEROSPACE LTD		Work Order: 134914
Description: Cabin Floor Protector		Part Number: D3574-6
Inspection Dwg: D3574 Rev: B		Page 2 of 2

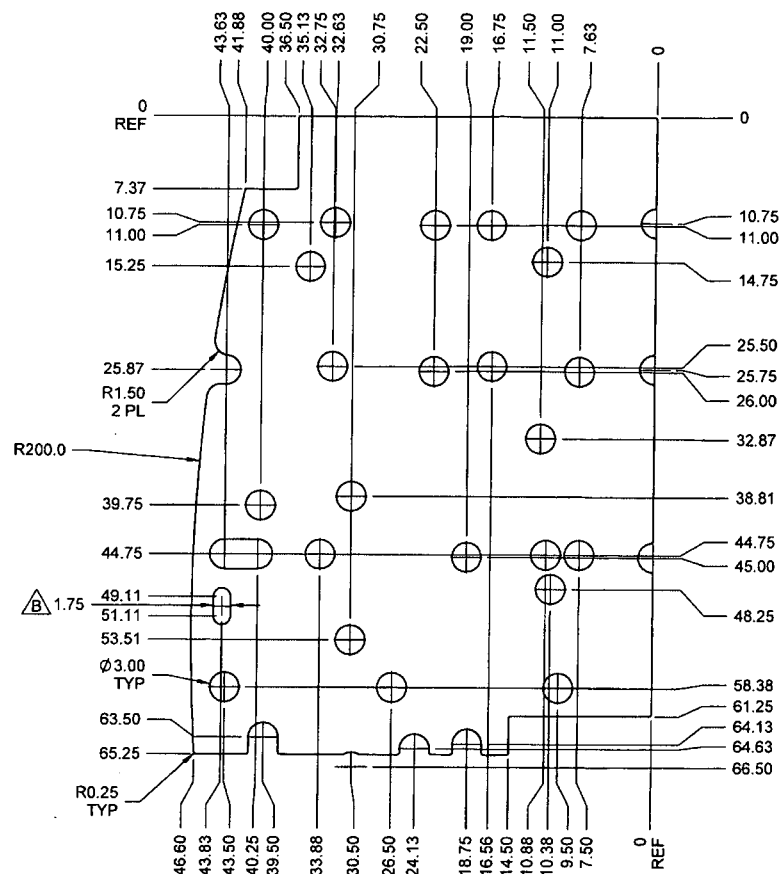
FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
10.38	+/-0.030	10.38	/		V2D-02	
14.50	+/-0.030	14.50	/		Tape	
16.75	+/-0.030	16.75	/			
18.94	+/-0.030	18.94	/			
19.00	+/-0.030	19.00	/			
24.13	+/-0.030	24.13	/			
33.88	+/-0.030	33.88	/			
39.50	+/-0.030	39.50	/			
40.25	+/-0.030	40.25	/			
43.50	+/-0.030	43.50	/			
46.60	+/-0.030	46.60	/			
0.125	+/-0.010	.129	/			

Measured by: <i>DC</i> Date: 15/08/11	Audited by: <i>DAS</i> Date: 38 9-89 AUG 11 2015	Prototype Approval: N/A Date: N/A
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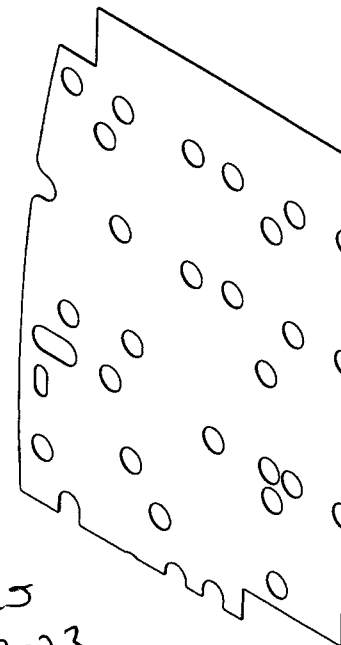
Rev	Date	Change	Revised by	Approved
A	08.01.16	New Issue	KJ/DD	
B	09.05.15	Dimensions updated per Dwg Rev B	KJ <i>AG</i>	<i>HA</i>



D3574-1 CABIN FLOOR PROTECTOR

NOTES:

- 1) MATERIAL: F60029 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE), 0.125 THICK, TEXTURED SIDE UP, (REF DART SPEC MLEXS.125-F60029-04)
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3574-1" AND B/N USING FINE POINT PERMANENT INK MARKER ON SMOOTH SIDE OF PART
- 7) WEIGHT: 14.30 lbs
- 8) CHECK PER TEMPLATE DT8961



RELEASED
09/04/07

B	ADD CUT-OUT TO -1/5 FOR WEIGHT AND BALANCE DATA PLATE ZN 87-1, B8-5; -2 NOW SHOWN ON SHEET 2	09.03.25
A	NEW ISSUE	CB 07.06.08
REV.	DESCRIPTION	BY DATE
DESIGN		
DRAWN		
CHECKED		
MFG. APPR.		
APPROVED		
DE APPR.		
DATE	09.03.25	

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

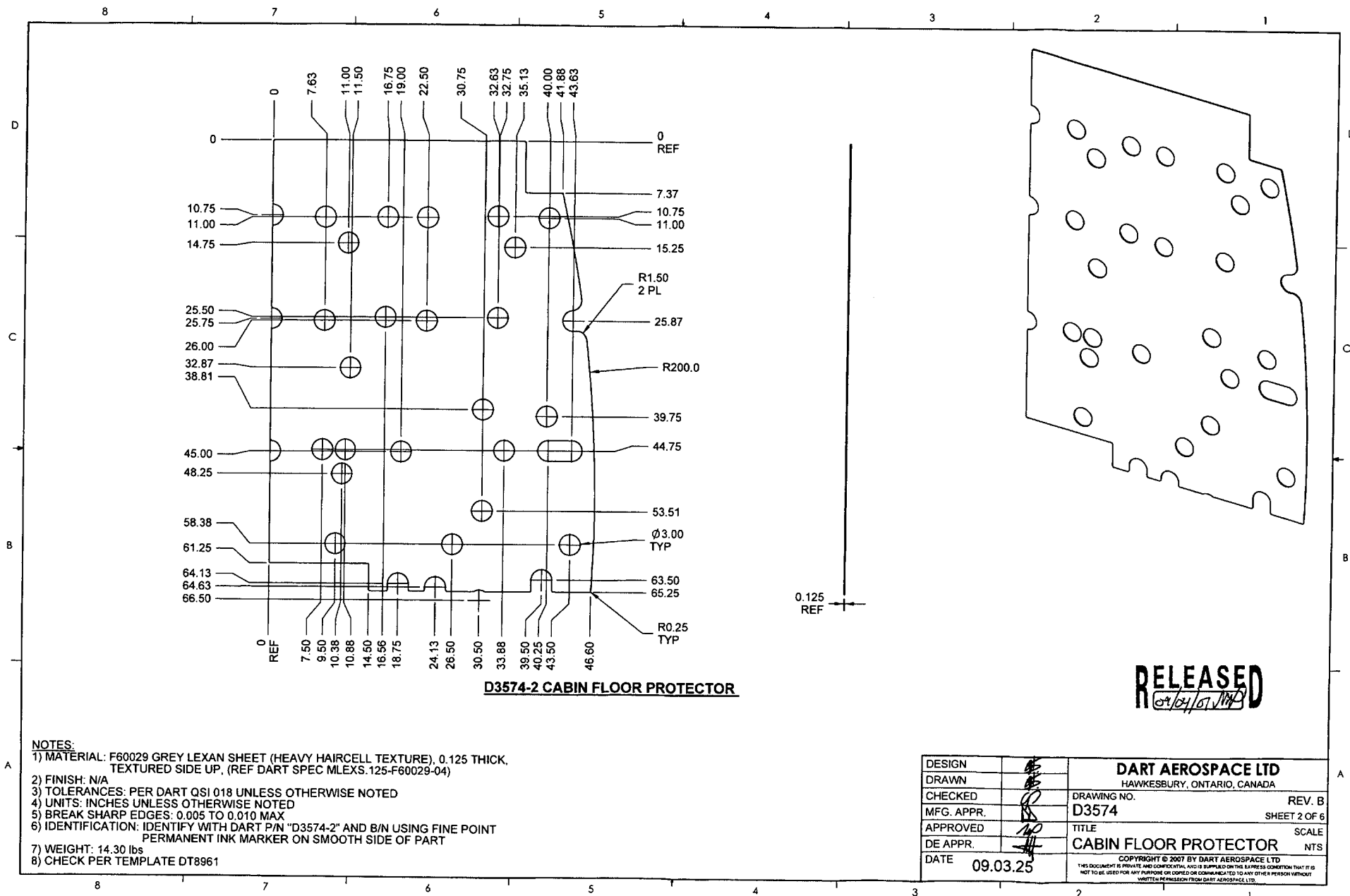
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D3574

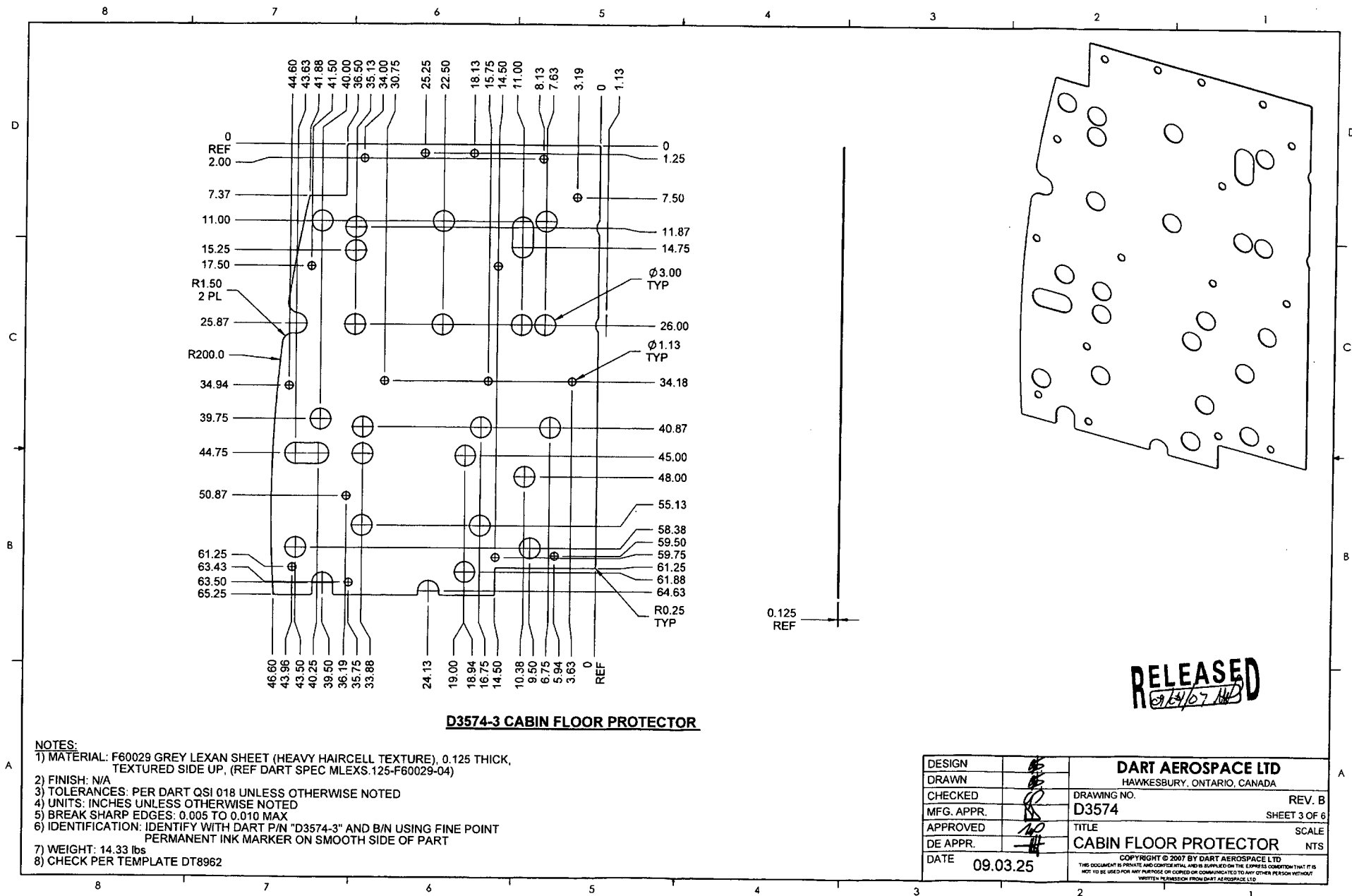
REV. B
SHEET 1 OF 6

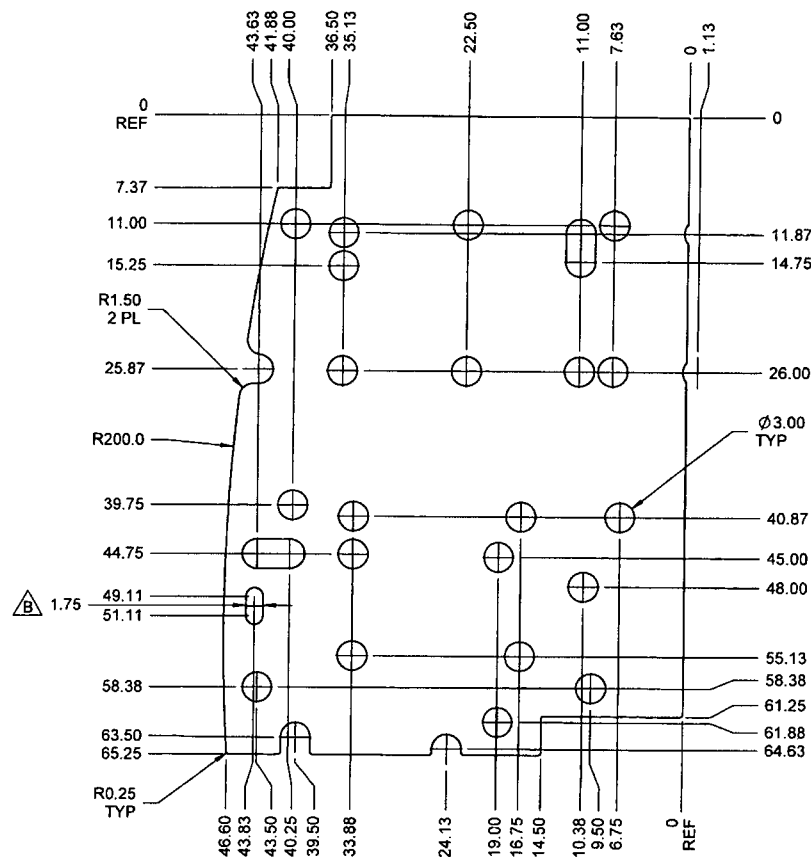
TITLE
CABIN FLOOR PROTECTOR

SCALE
NTS

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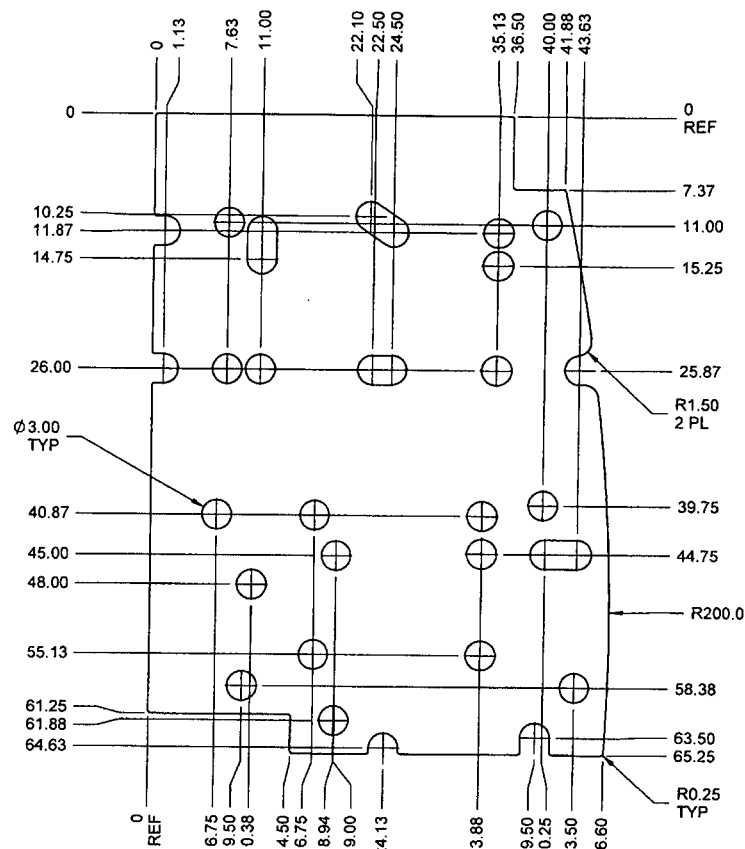
D3574-5 CABIN FLOOR PROTECTOR

NOTES:

- 1) MATERIAL: F60029 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE), 0.125 THICK, TEXTURED SIDE UP, (REF DART SPEC MLEXS.125-F60029-04)
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3574-5" AND B/N USING FINE POINT PERMANENT INK MARKER ON SMOOTH SIDE OF PART
- 7) WEIGHT: 14.38 lbs
- 8) CHECK PER TEMPLATE DT8964

RELEASED
09/04/07

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MFG. APPR.		D3574	SHEET 5 OF 6
APPROVED		TITLE	SCALE
DE APPR.		CABIN FLOOR PROTECTOR	NTS
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D3574-6 CABIN FLOOR PROTECTOR

NOTES:

- 1) MATERIAL: F60029 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE), 0.125 THICK, TEXTURED SIDE UP, (REF DART SPEC MLEXS.125-F60029-04)
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3574-6" AND B/N USING FINE POINT PERMANENT INK MARKER ON SMOOTH SIDE OF PART
- 7) WEIGHT: 14.27 lbs
- 8) CHECK PER TEMPLATE DT8965

RELEASED
27/04/07 JH

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